

Tizen-based TV WebApp SDK

Ping Song
Samsung Electronics



Overview



Tizen-based TV SDK Overview

Web App SDK



Tools for HTML/CSS/JS web applications.

Platform SDK



Tools for developing native apps and TV modules.

Utility Tools



Debugging and development tools.

HTML5 APIs
IDE
Emulators

TV SW Module Build Tools

Web Inspector

Device API
CAPH

DRM Support
App Multitasking

Dynamic Analyzer

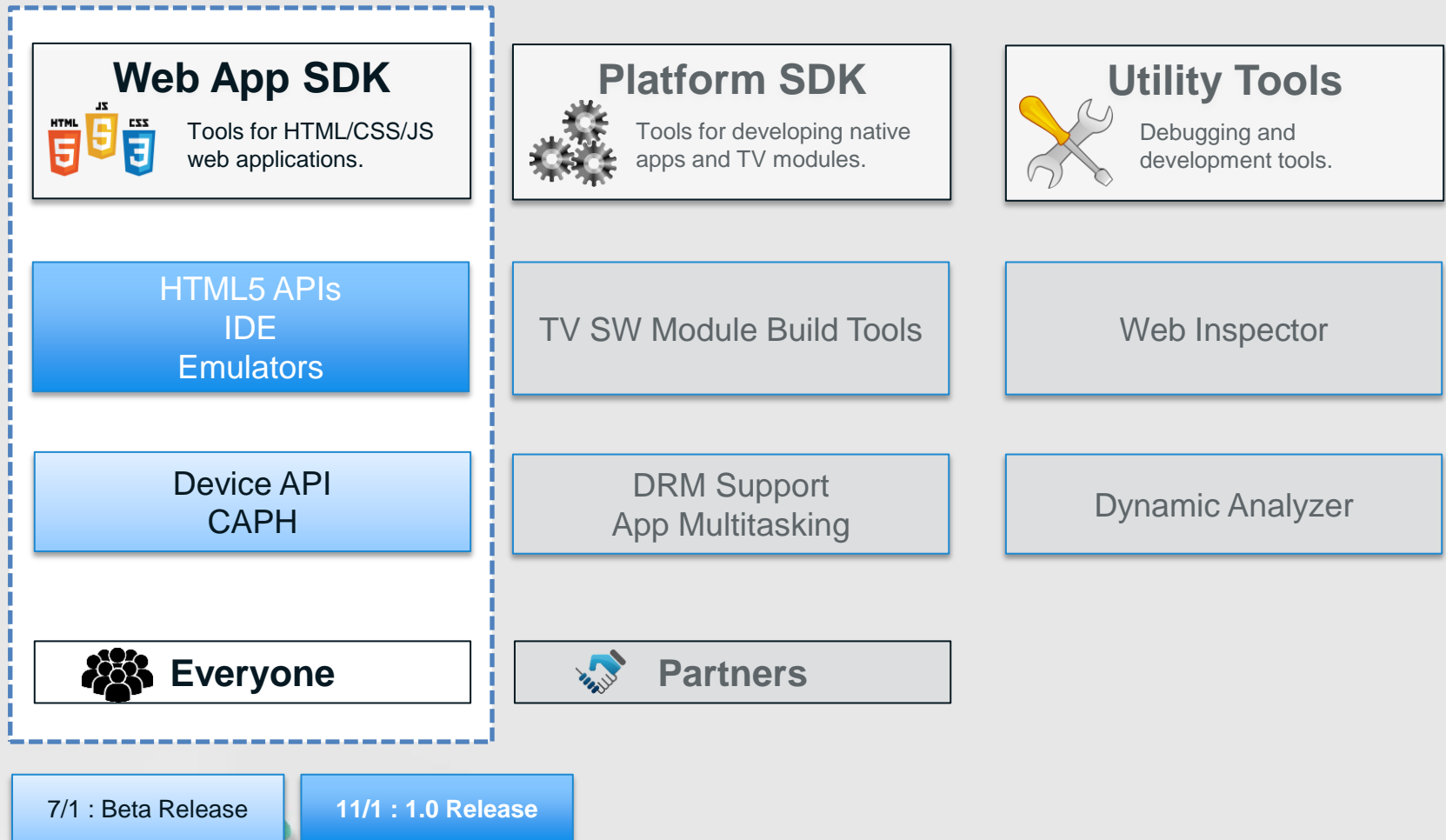


Everyone

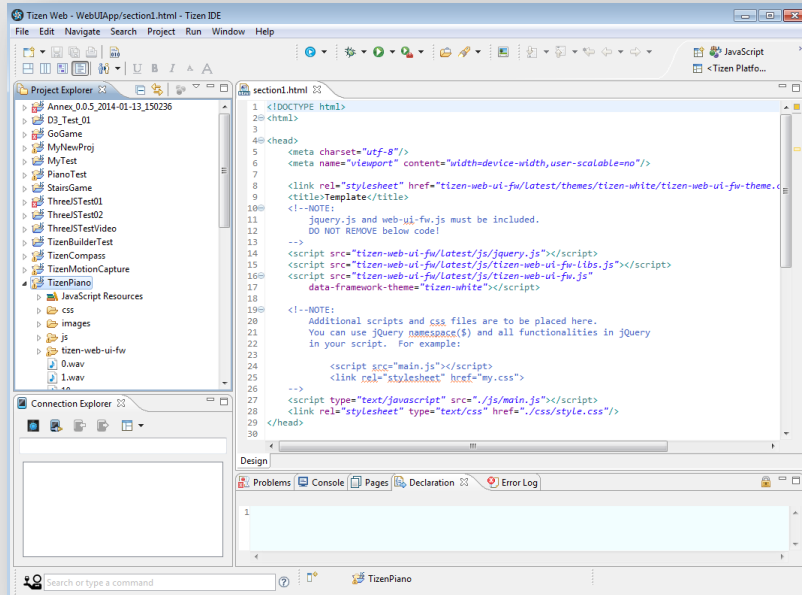


Partners

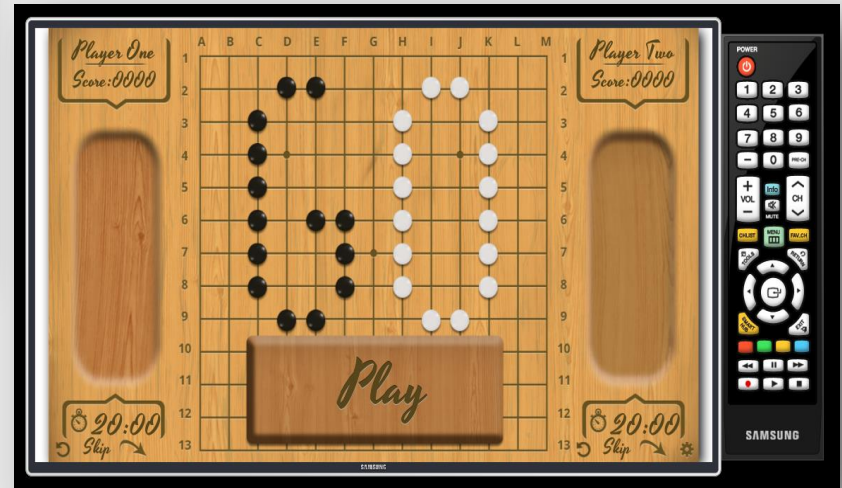
Tizen-based TV SDK Overview



Tizen-based TV Web SDK



IDE



Emulators

- Web Simulator
- Full Stack TV Emulator

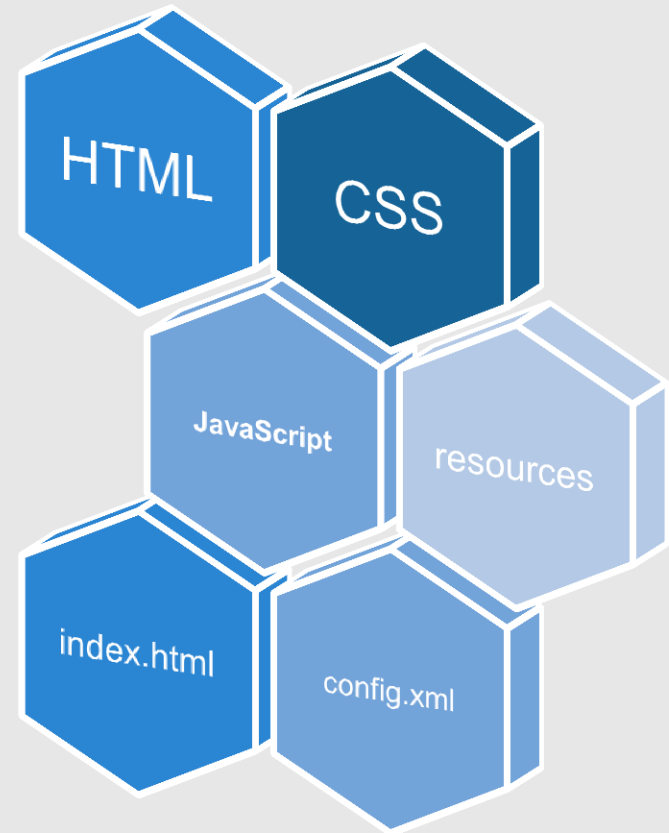
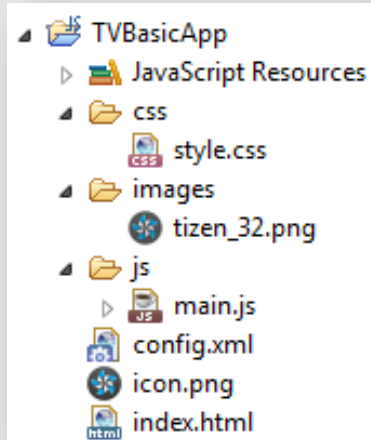
Tizen-based TV Web App Structure

HTML Page : Structure

CSS : Style

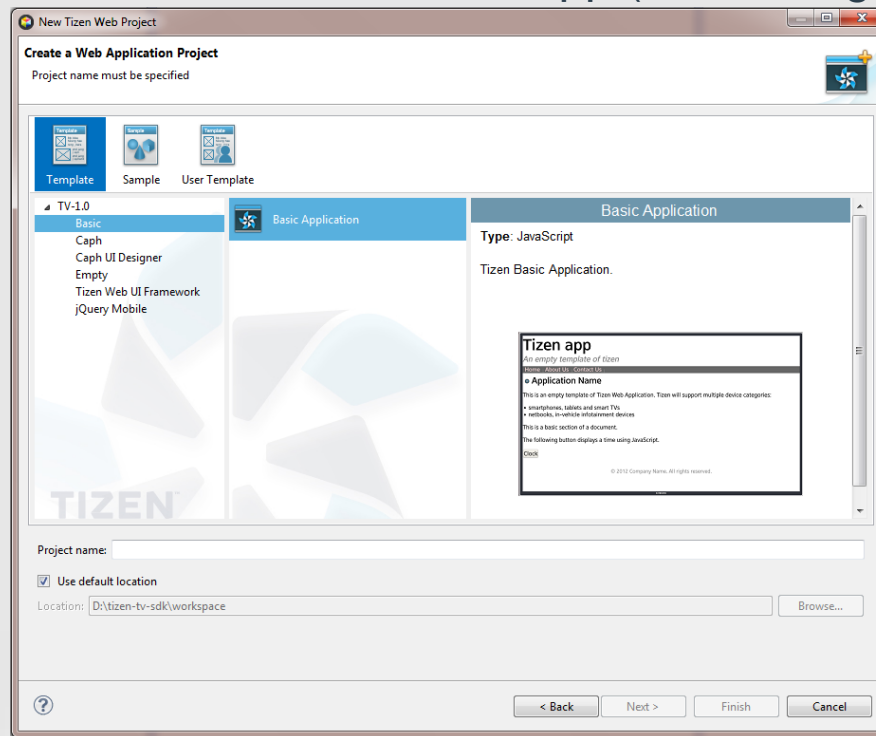
Javascript : Behavior

config.xml : Environment & application info

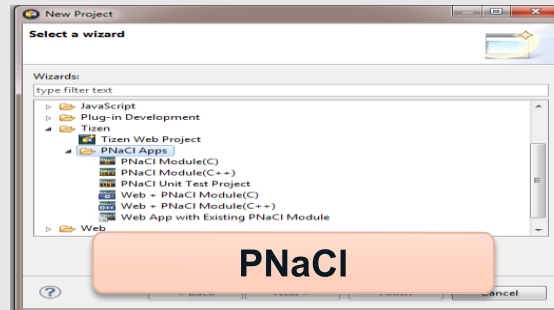
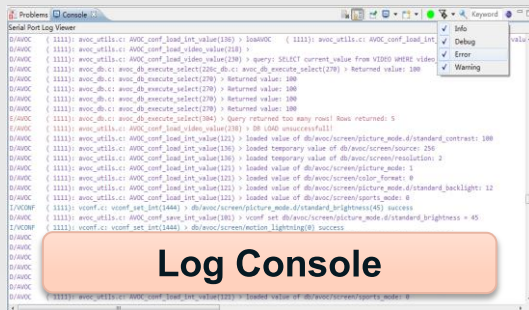
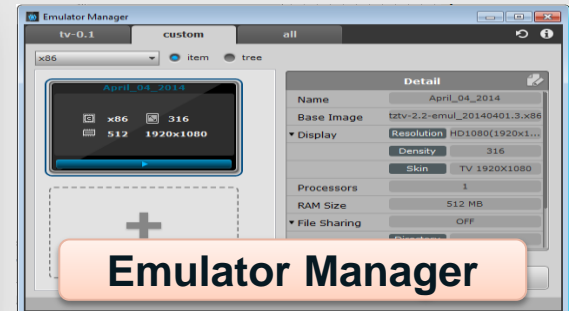
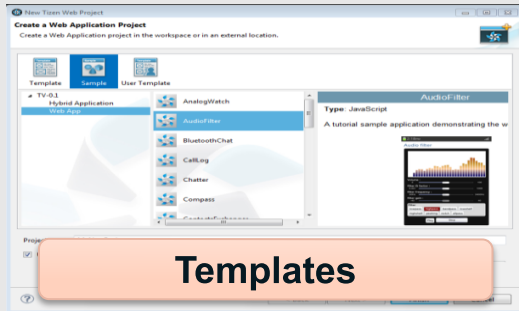


Specialization for Tizen

- **Best Tool for Developing Tizen Web Application**
 - Project Management
 - Project Wizard & Explorer
 - Templates, User Templates and Sample Apps
 - Configuration Editor for Tizen Web App (W3C Widget configuration)



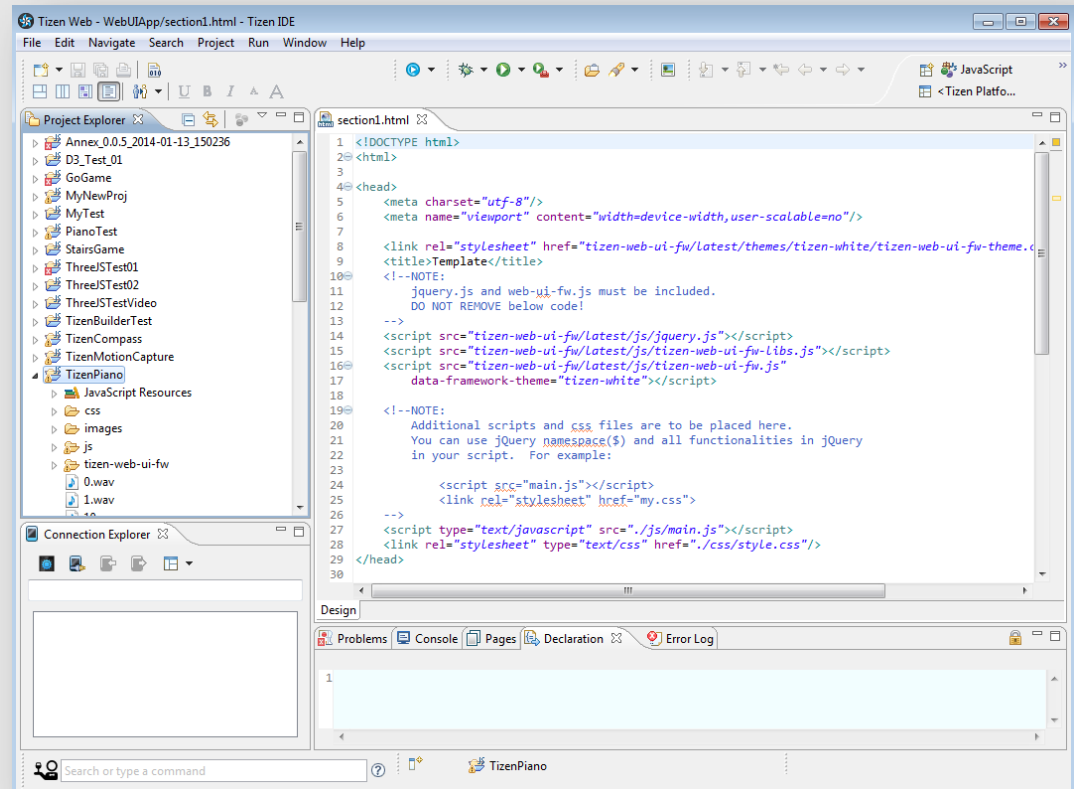
Tizen-based TV SDK: IDE



**&
More**

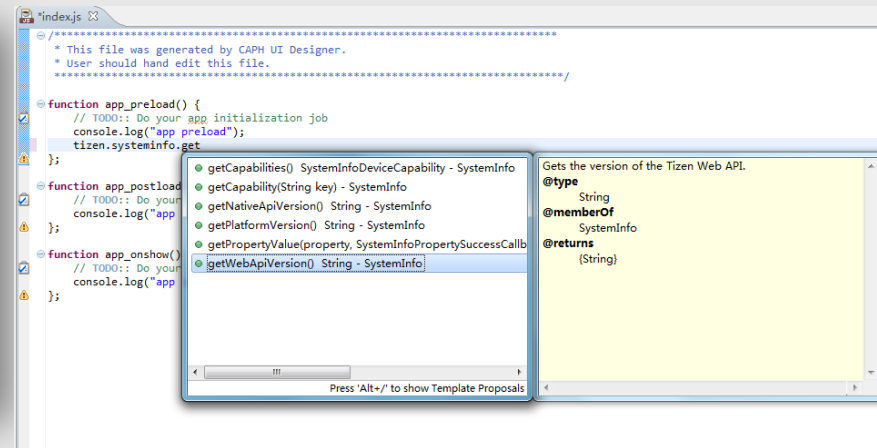
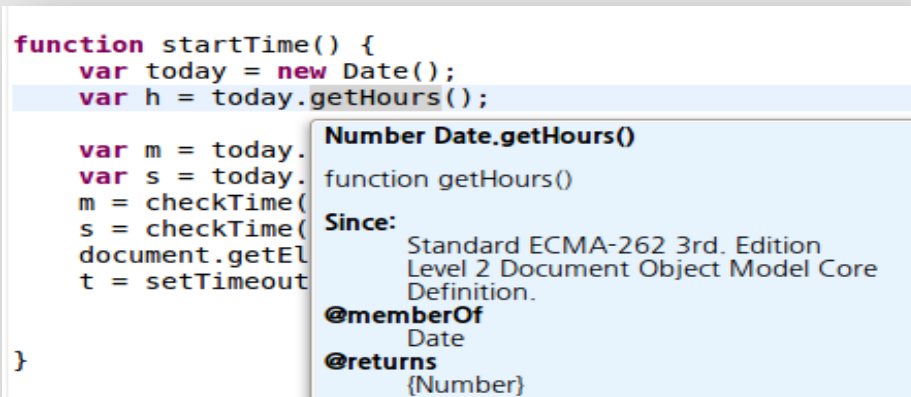
Tizen-based TV SDK : IDE

- **Features**
 - Eclipse-based
 - **HTML, JavaScript, CSS**
 - Emulator Integration
 - Project Templates
 - More...



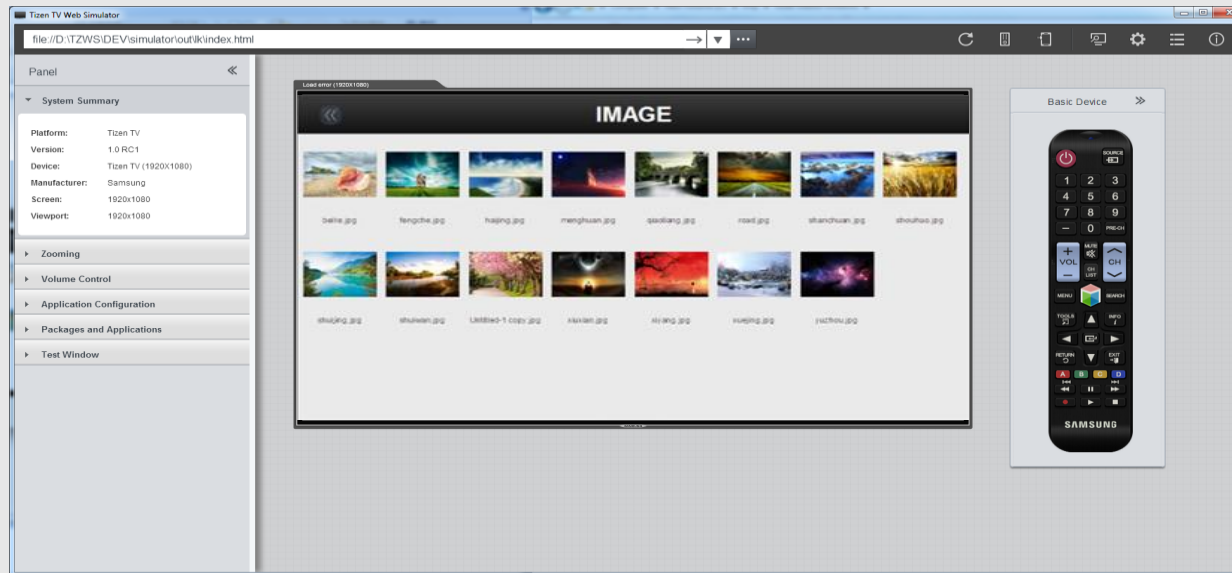
Tizen-based TV SDK: IDE

- Features
 - Hover Insight
 - Auto-complete



Tizen-based TV Web SDK: Web Simulator

- Light Weight & Ideal for Quick Testing



Tizen-based TV Web SDK

Code Editor

Edit, debug, and package your apps.

TV Device Emulator Web Simulator

APIs, Documentation, and more

**Tizen-based TV Web
SDK 1.0 is Coming on
Nov.1st**



UI Designer



Caph UI Elements



Box



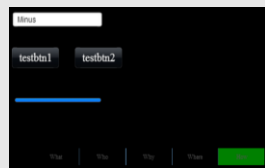
Image



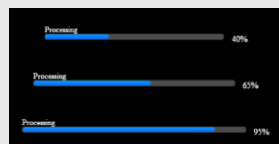
Button Strip



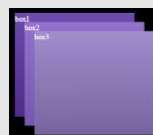
Carousel



Dom Container



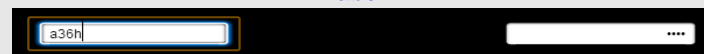
Progress Bar



Color Tag



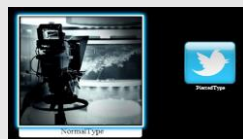
Label



Input Box



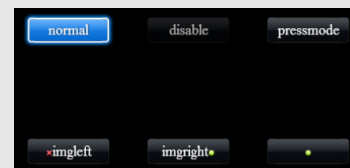
Spinner



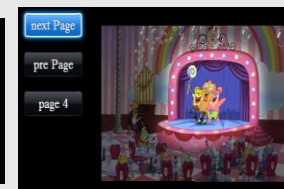
Panel



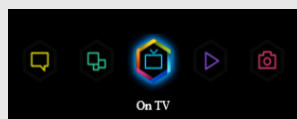
Grid



Button



Book



Navigator



List

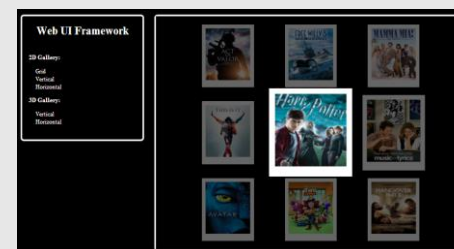
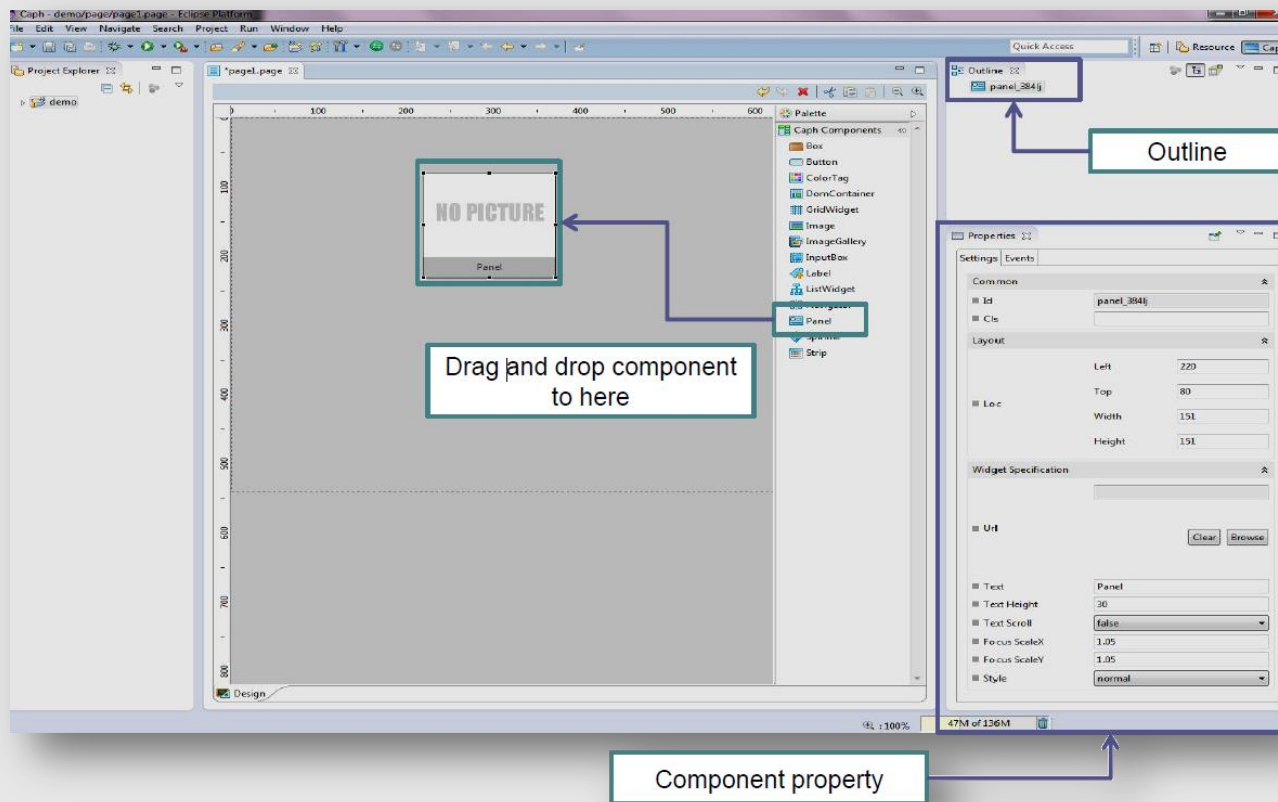


Image Gallery

Caph has many impressive widgets.

TIZEN™ DEVELOPER SUMMIT
2014 SHANGHAI
TIZEN开发者峰会 (上海)

Caph UI Designer



Features

- WYSIWYG Designer
- Drag-n-Drop Components
- Programming Support
- Page Management
- Components Snippets
- More...

Caph Text Editor

OOP

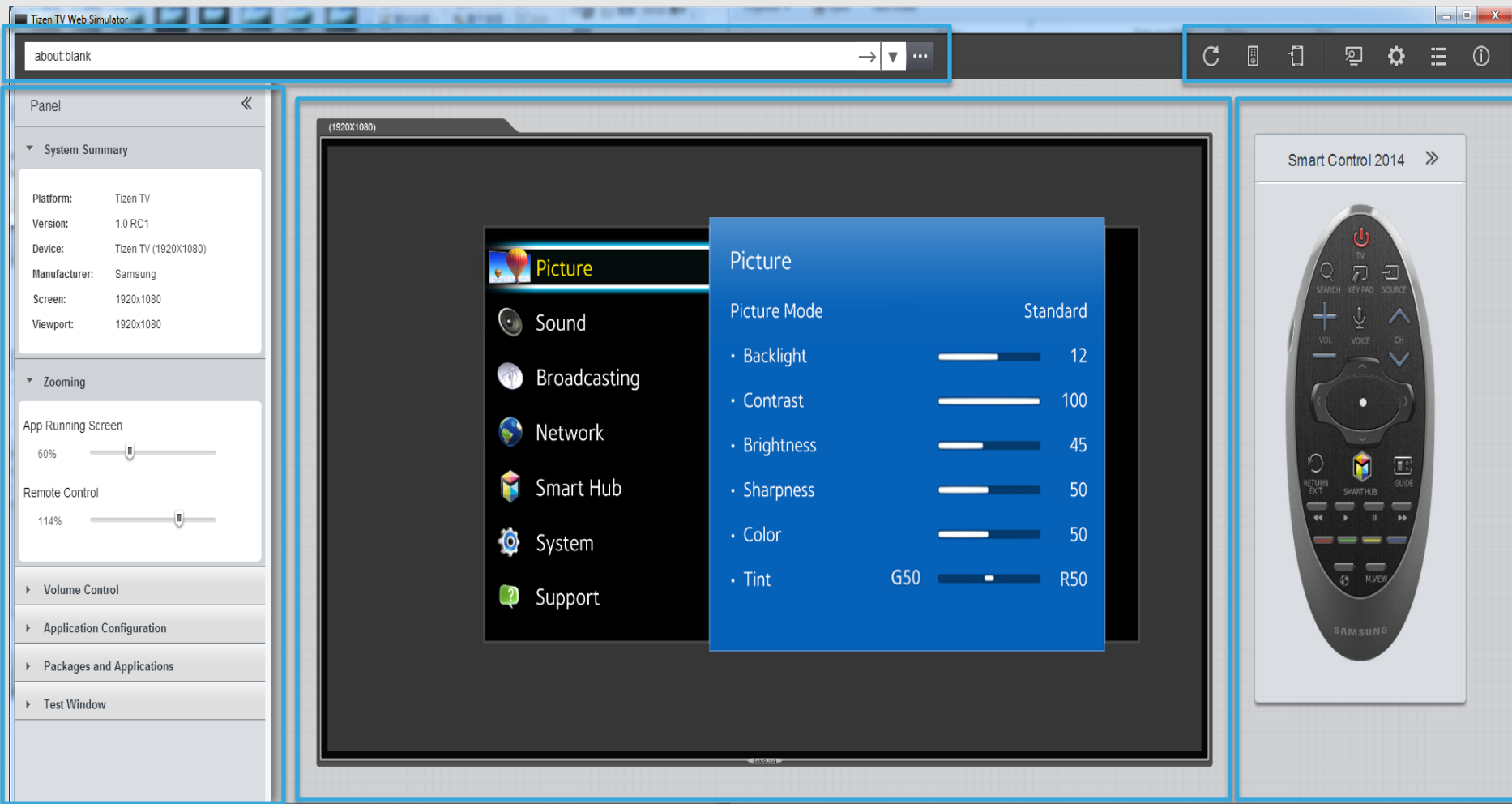
```
caph.define("caph.test.Test2", {  
  $extend: "caph.test.Test1",  
  $init: function() {  
    this.x = 30;  
  },  
  // public area  
  fn: function() {  
    this.$super.fn();  
    console.log(this.x * 10);  
  },  
  test2: function() {  
    console.log("test2");  
  }  
});
```



Web Simulator



Overview



What's New?

- Web API
- Standalone Mode
- HTTP Live Streaming
- More
 - Integration Ongoing

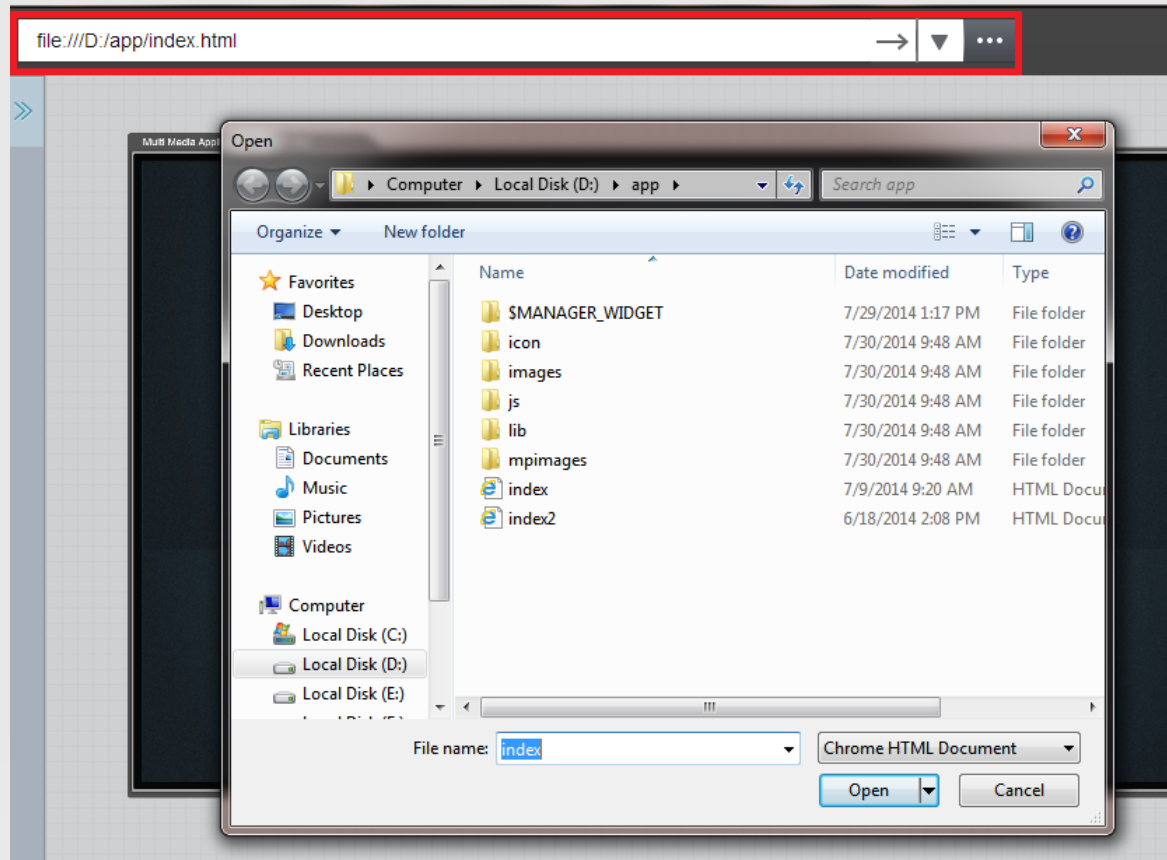
Functionality: Web API

- Standard HTML5 + Tizen Device API



Functionality: Load App

- Run As From IDE
- Standalone Mode




Functionality: HLS

file:///home/gongping/root/apps/test/index.html

Panel

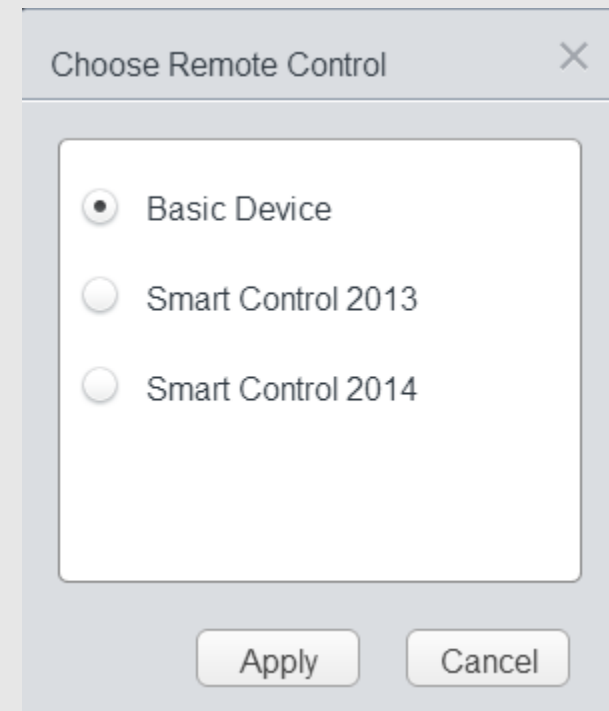
- System Summary
- Zooming
 - App Running Screen: 80%
 - Remote Control: 92%
- Volume Control
- Application Configuration
- Packages and Applications
- Test Window

HLS Sample (1920X1080)



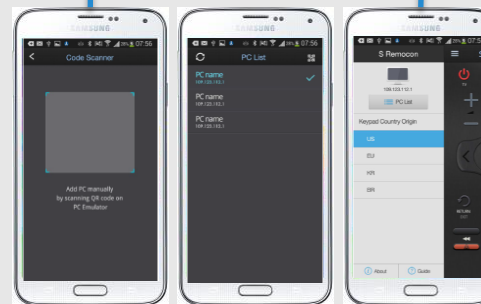
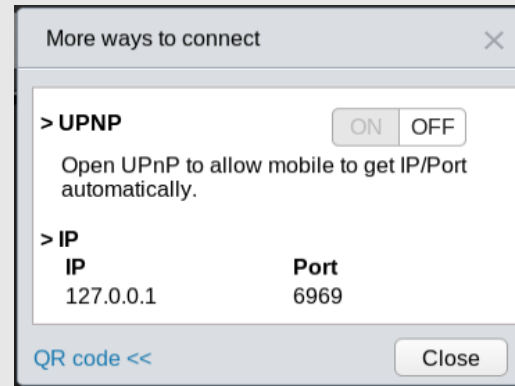
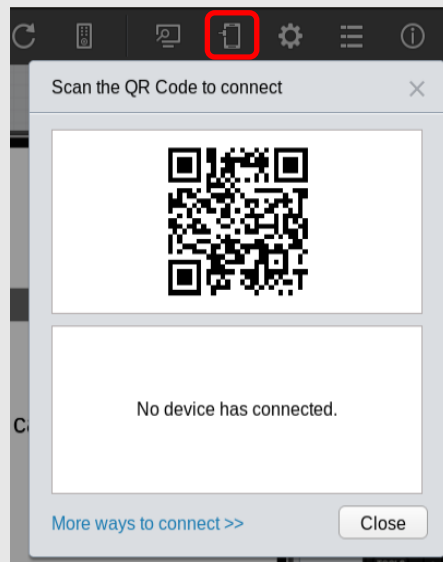
```
<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en">
  <head>
    <title>HLS Sample</title>
  </head>
  <body>
    <video id="videoid1" height="480" width="640" controls>
      <source src="http://localhost:3000/hls/ts.m3u8" type="application/x-mpegURL">
    </video>
  </body>
</html>
```

Functionality: Remote Control

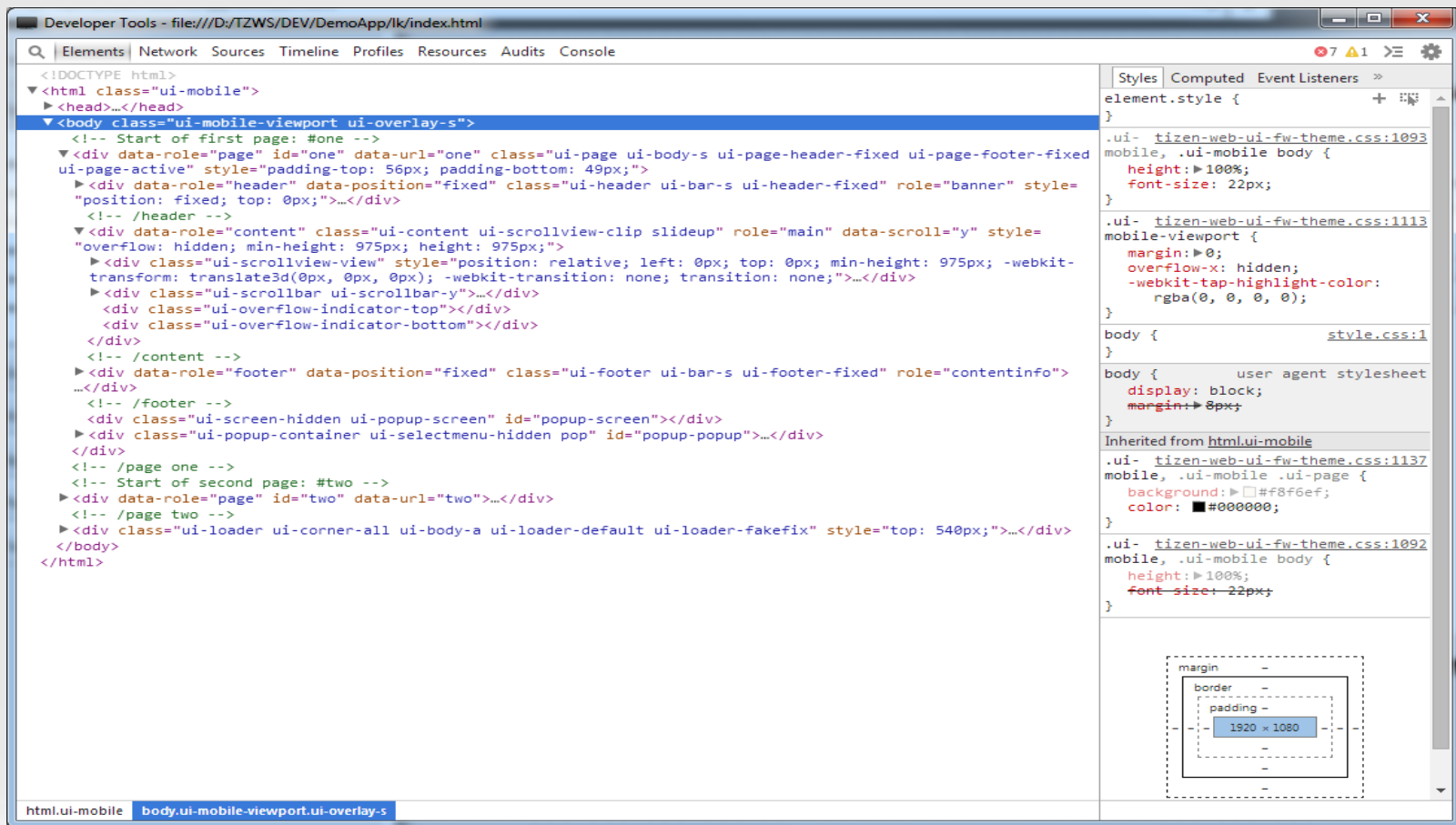


Functionality: Connect Mobile RC

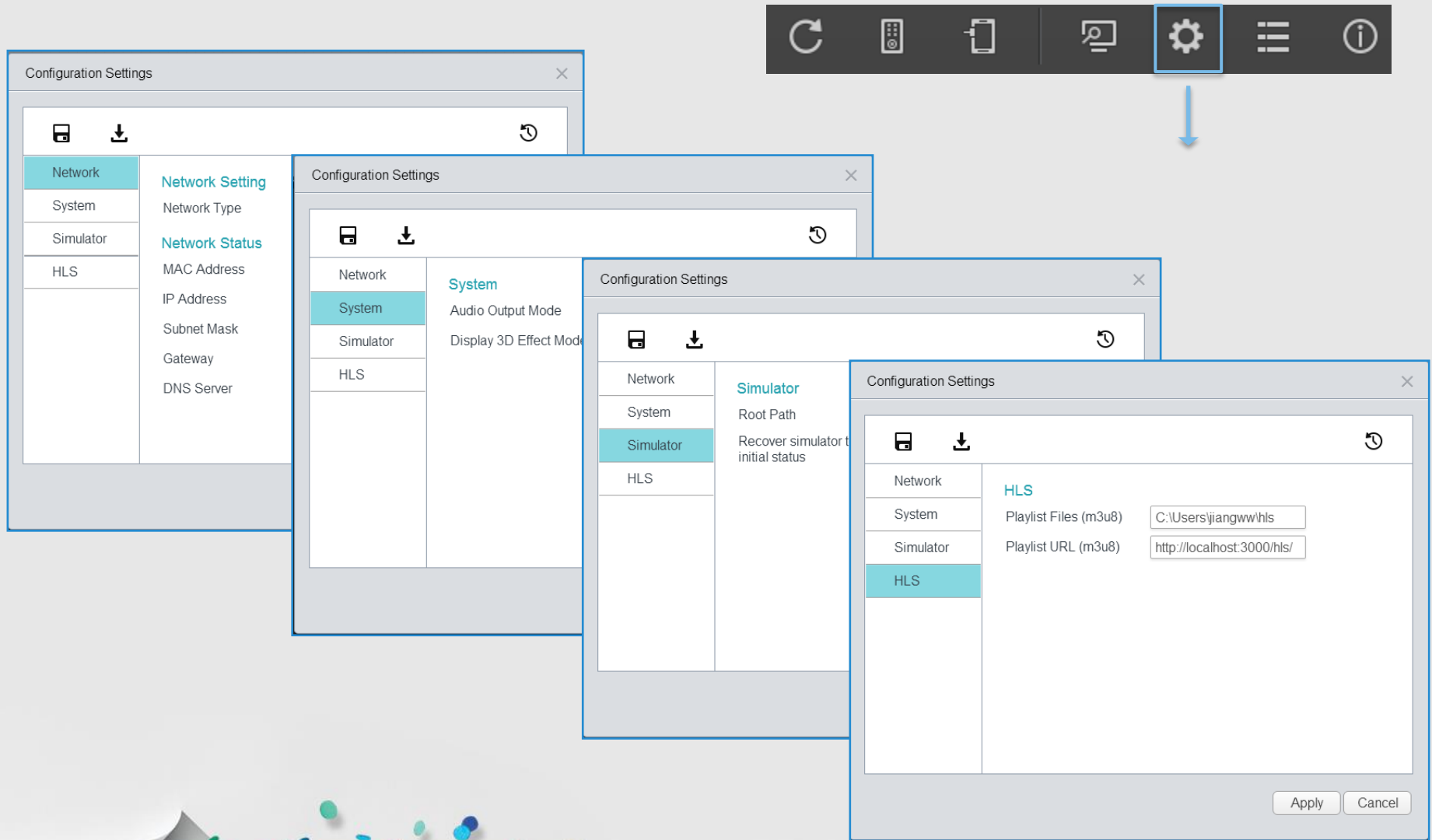
- QR Code
- UPnP



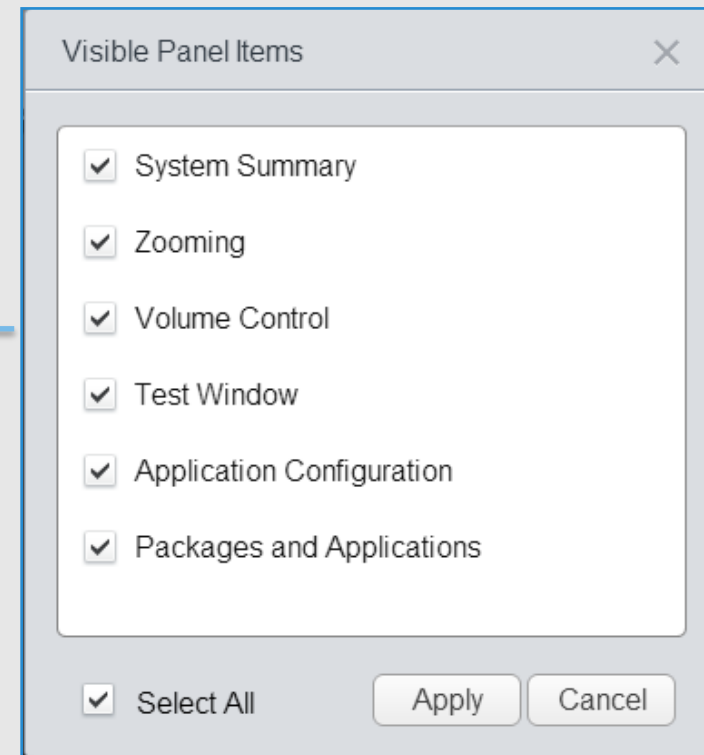
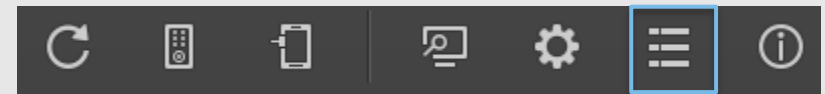
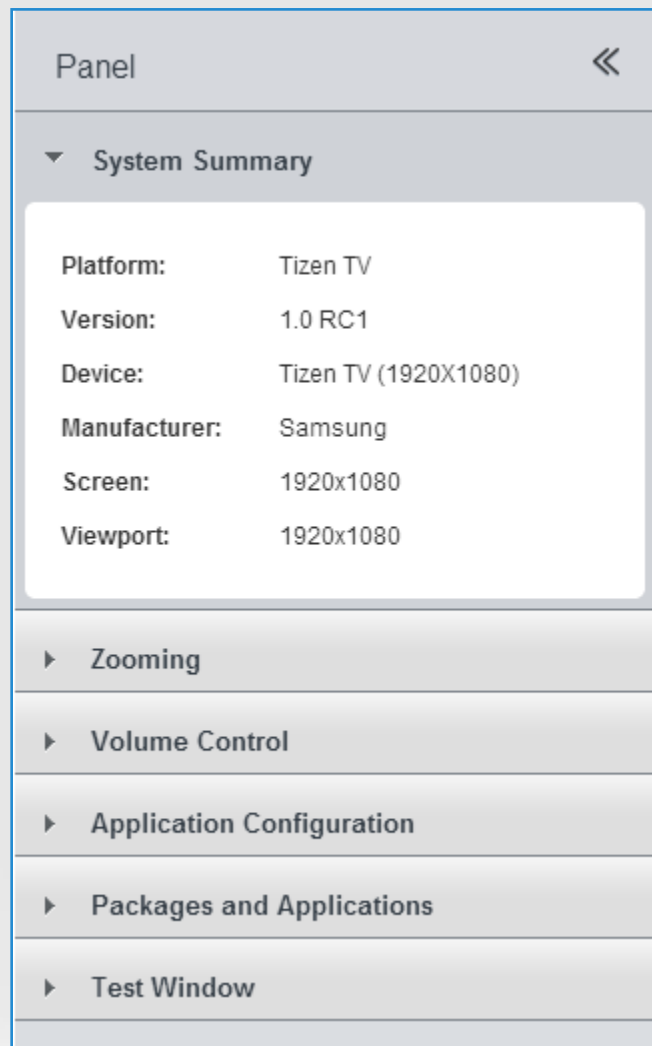
Functionality: Web Inspector



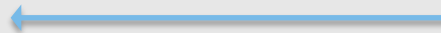
Functionality: Configuration Settings



Functionality: Panel Settings

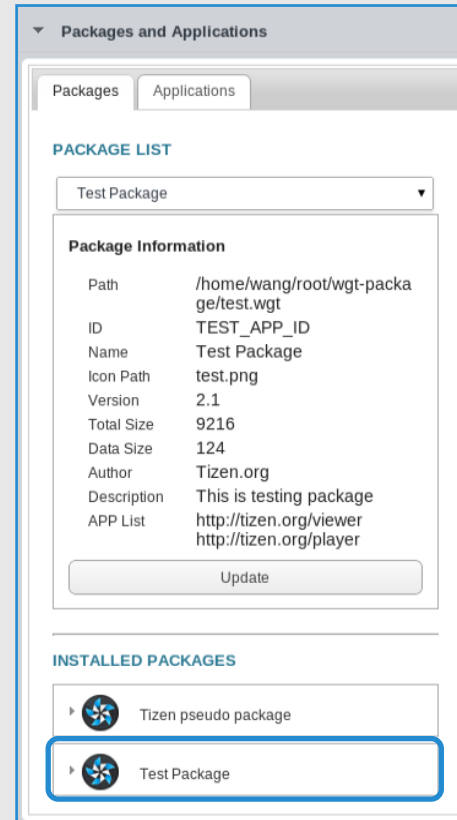
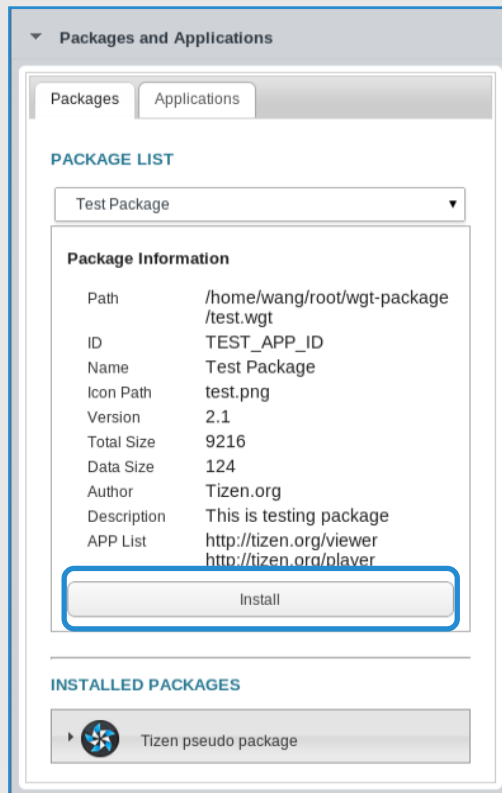


Check to Display



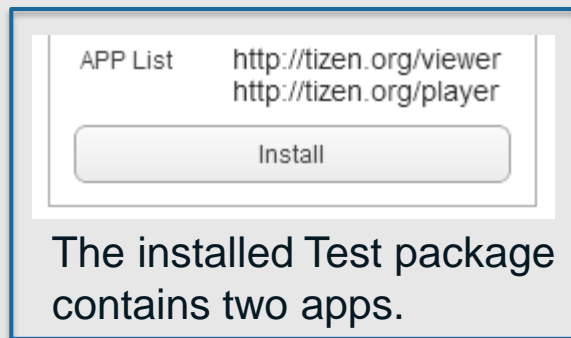
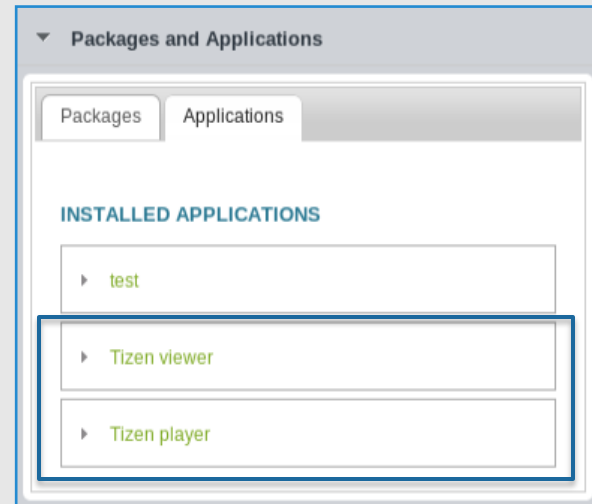
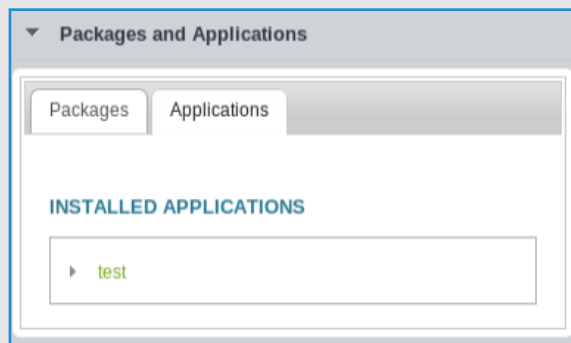
Example: How to debug with Web Simulator

- Packages and Applications – 1/3



Example: How to debug with Web Simulator

- Packages and Applications – 2/3



Example: How to debug with Web Simulator

- Packages and Applications – 3/3

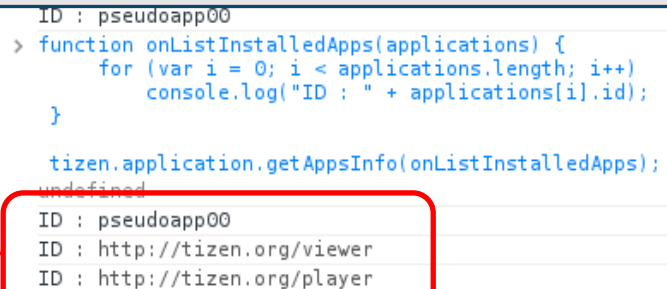
```
function onListInstalledApps(applications) {  
    for (var i = 0; i < applications.length; i++)  
        console.log("ID : " + applications[i].id);  
}  
  
tizen.application.getAppsInfo(onListInstalledApps);
```

Before



```
<top frame> ▾  
> function onListInstalledApps(applications) {  
    for (var i = 0; i < applications.length; i++)  
        console.log("ID : " + applications[i].id);  
}  
  
tizen.application.getAppsInfo(onListInstalledApps);  
undefined  
ID : pseudoapp00
```

After



```
ID : pseudoapp00  
> function onListInstalledApps(applications) {  
    for (var i = 0; i < applications.length; i++)  
        console.log("ID : " + applications[i].id);  
}  
  
tizen.application.getAppsInfo(onListInstalledApps);  
undefined  
ID : pseudoapp00  
ID : http://tizen.org/viewer  
ID : http://tizen.org/player
```

Conclusion



Conclusion

- **Tizen-based TV Web SDK allows you to make Web Application easily and quickly.**
- **Caph UI Designer will be released soon.**
- **More features will be supported in SDK.**
 - Multi-screen
 - Billing etc.

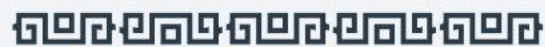


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